

Water levels are graphed two ways in the following slides

- Current water levels are compared to the distribution of historical water-level data over the entire period for which they were measured
- Current water levels are compared to water levels in the year for which winter water levels were the lowest

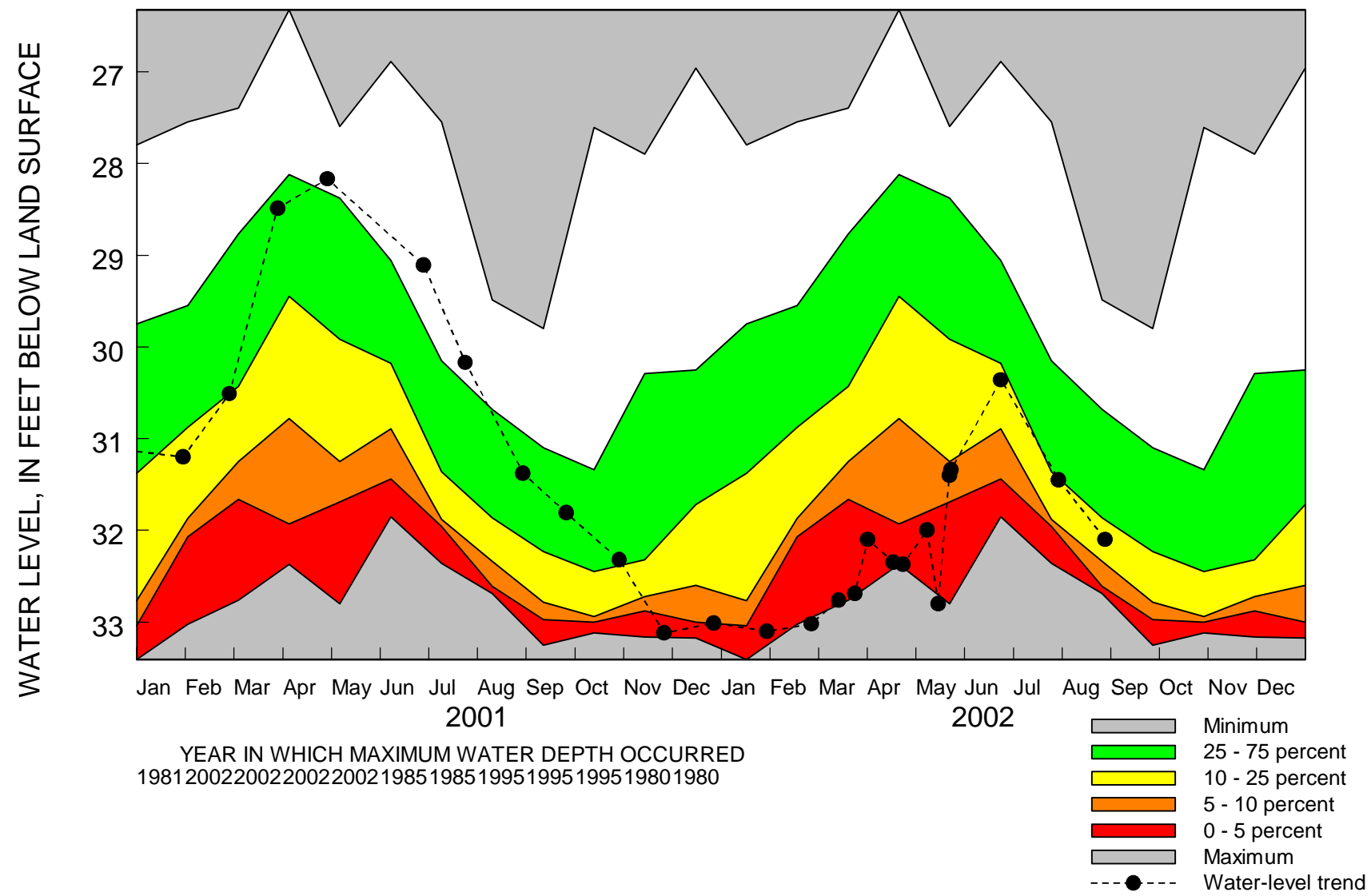


Explanation of slides comparing current water levels to historical monthly water levels

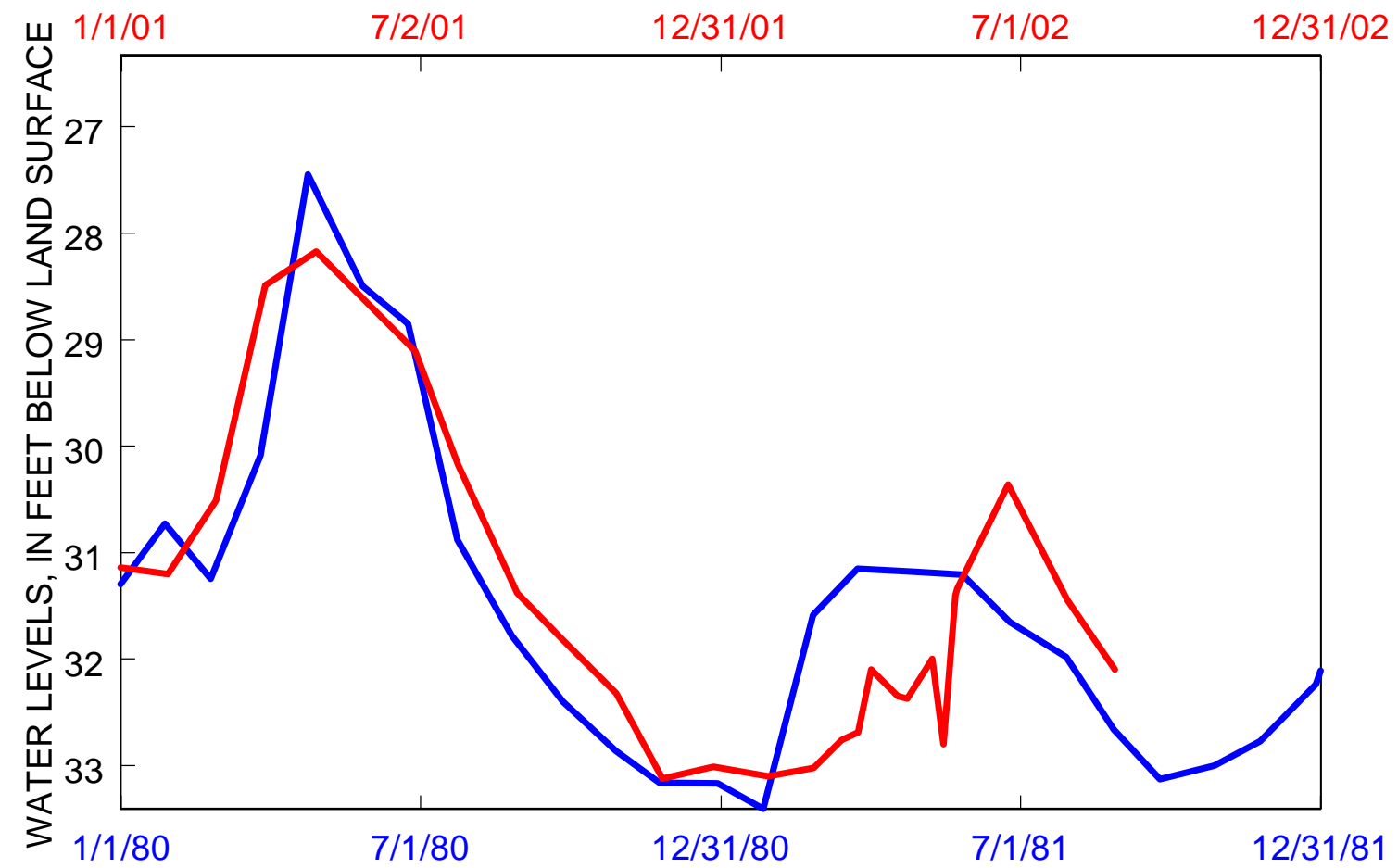
- Water levels are recorded as the depth to water, so the maximum water level is the deepest (lowest) water level ever recorded in that month
- The minimum and maximum water levels and the 5th, 10th, 25th, and 75th percentile were calculated for each month since measurements were begun
- A percentile is the water level exceeded by that percent of the water levels.
- For example, if the water level at the 5th percentile in January is 10 feet, the water level has been lower than 10 feet in 5 percent of the January measurements ever made



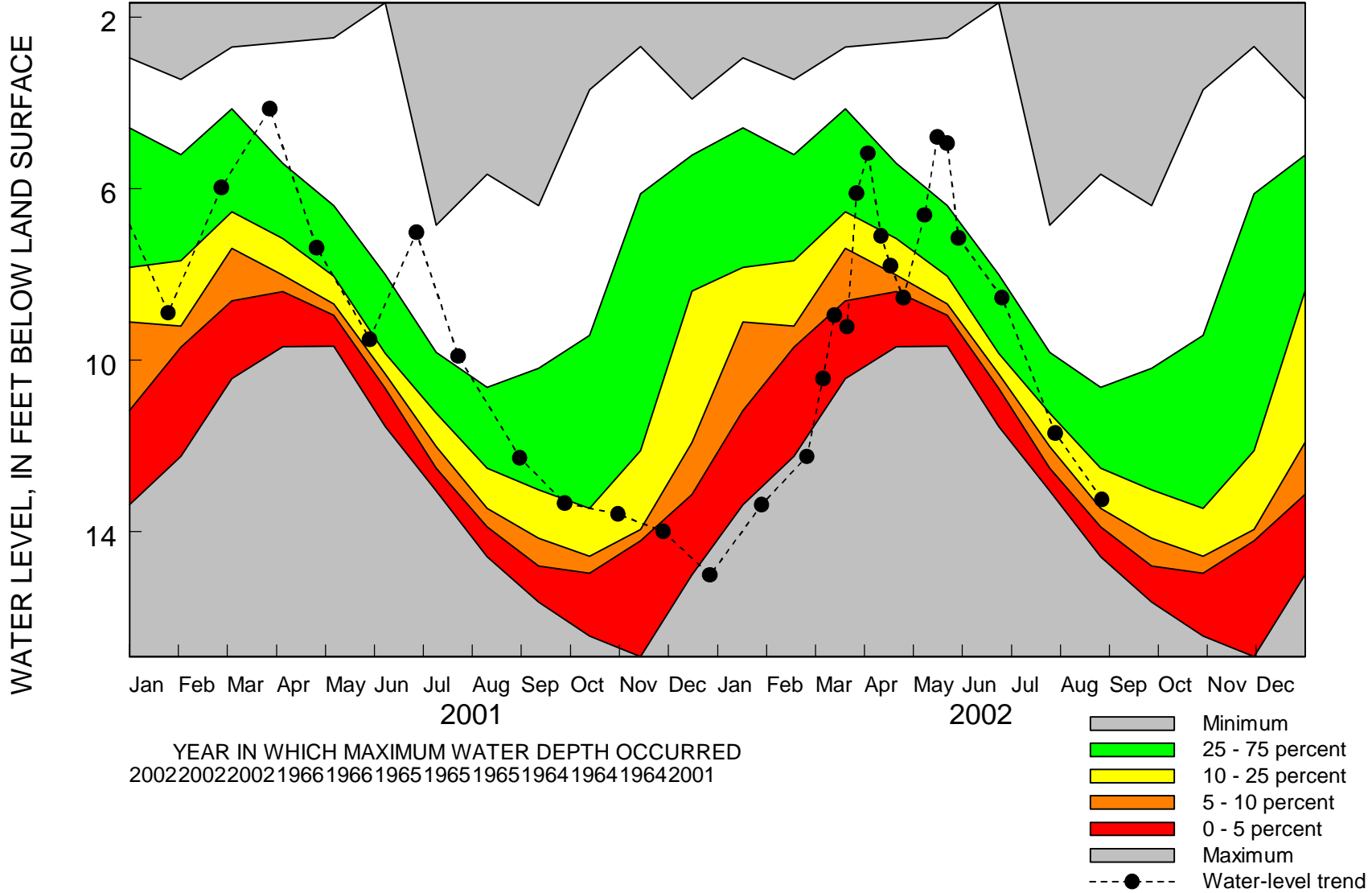
Water levels in USGS well BD-8, Brookfield, CT



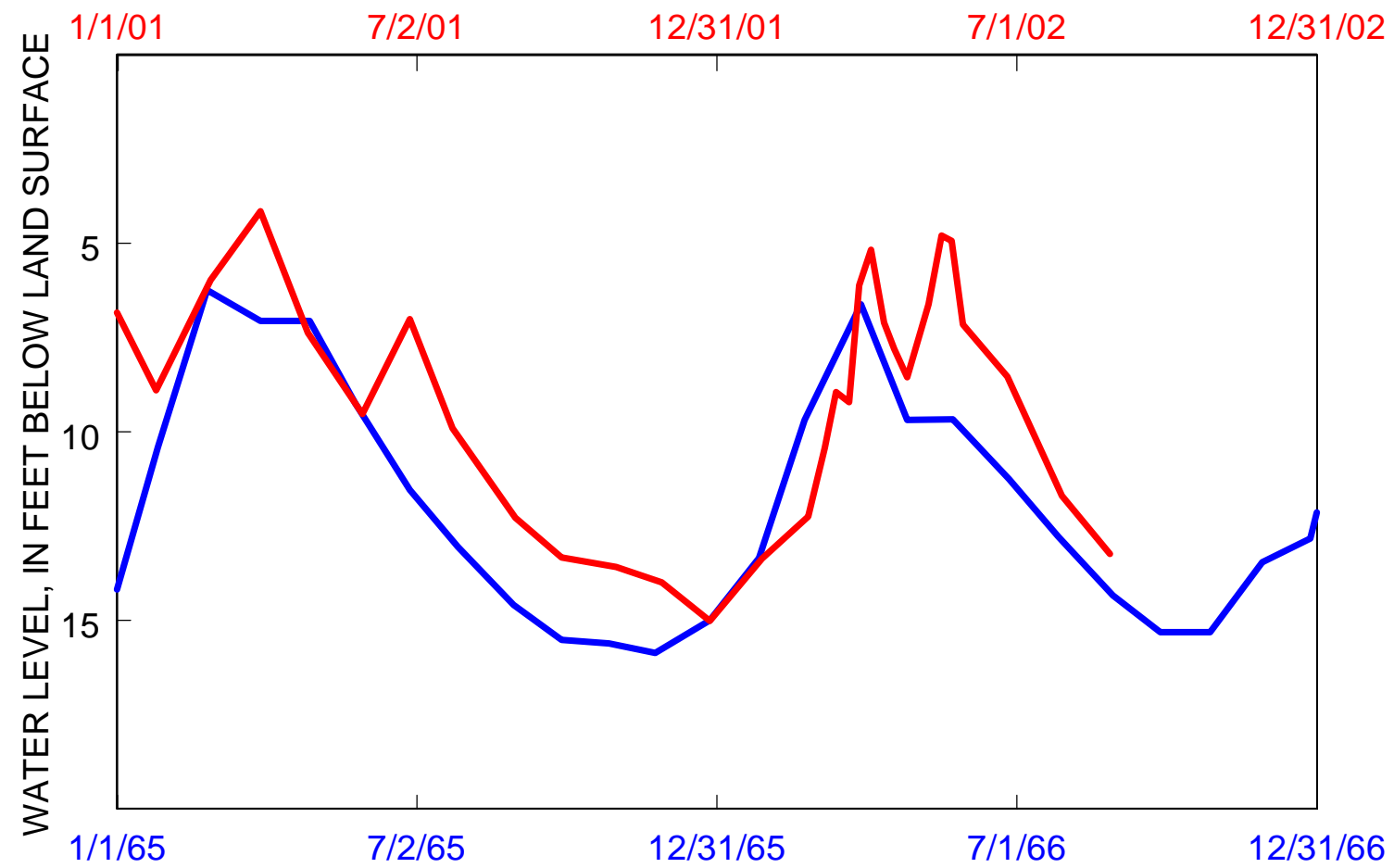
Water levels in well BD-8 in 1980-81 and 2001-02



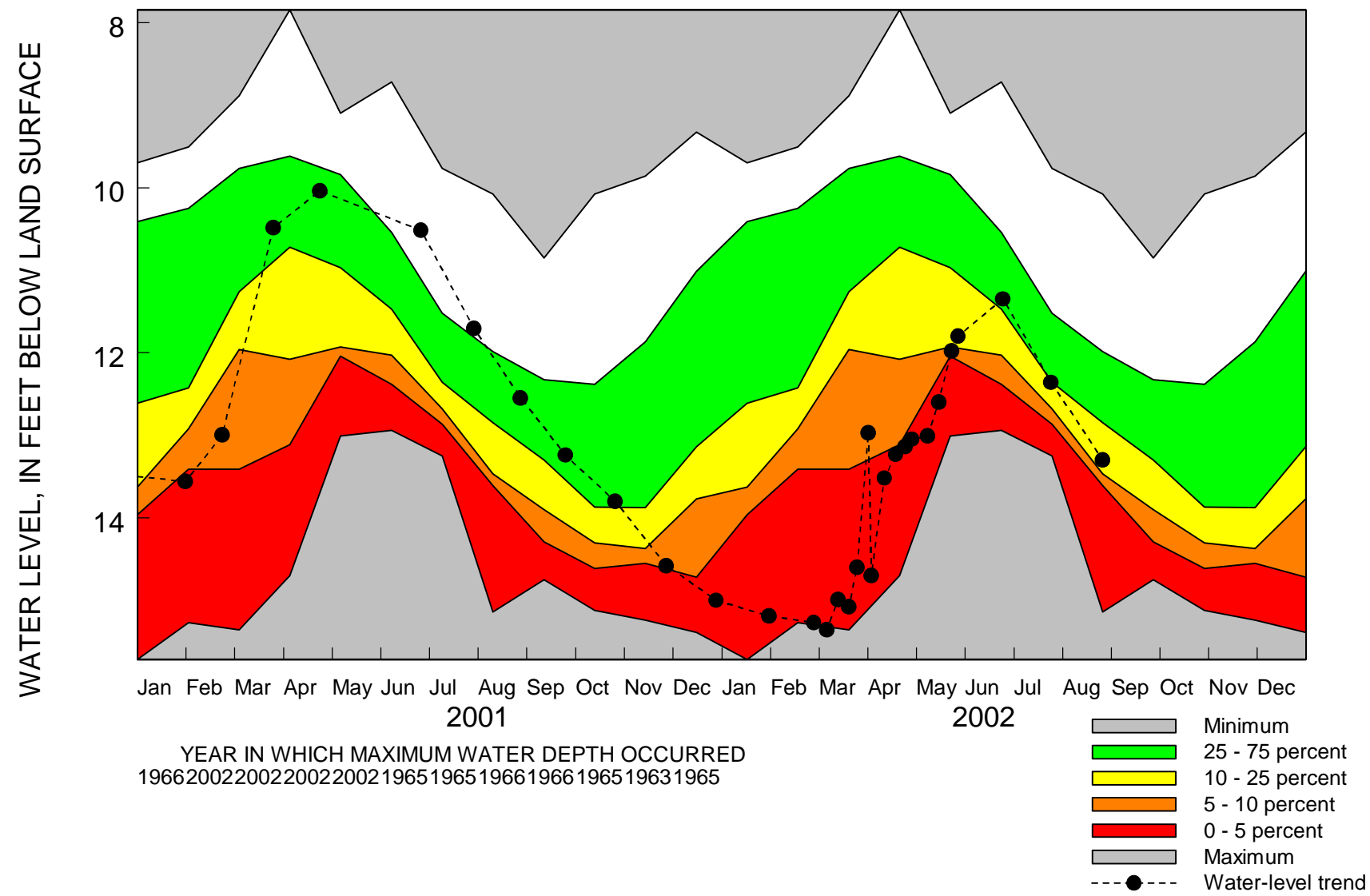
Water levels in USGS well MF-1, Middlefield, CT



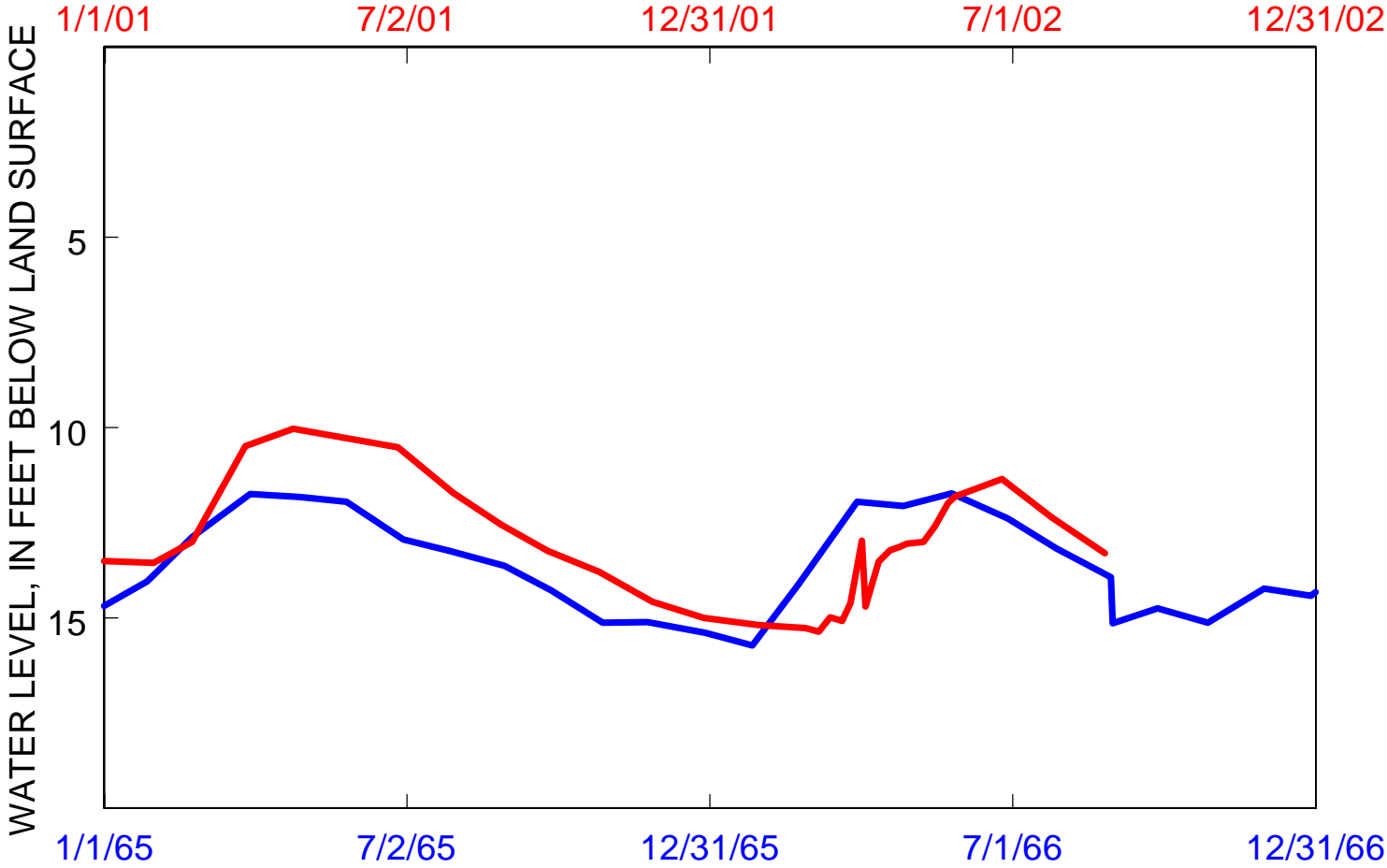
Water levels in well MF-1 in 1965-66 and 2001-02



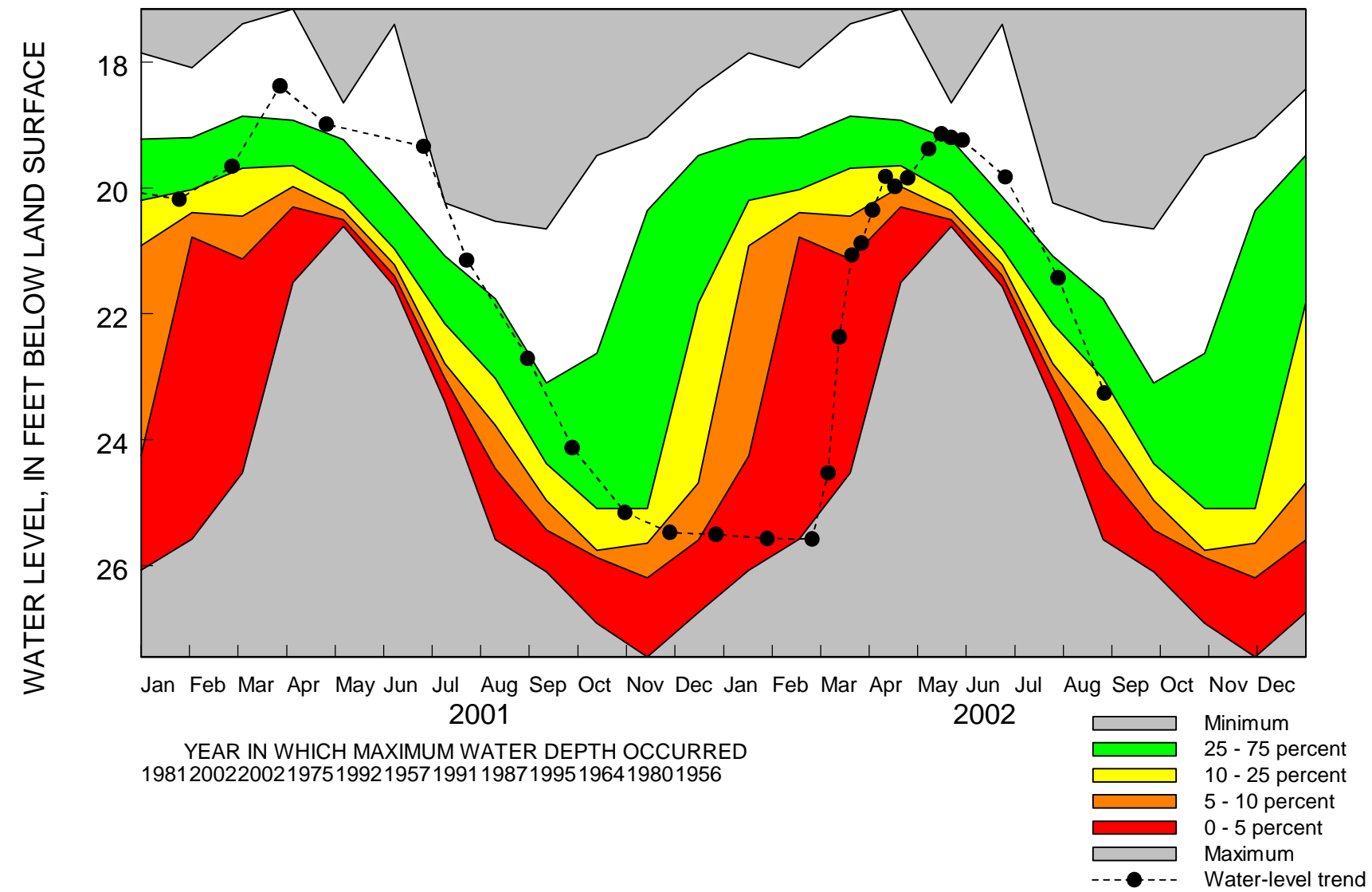
Water levels in USGS well MS-19, Mansfield, CT



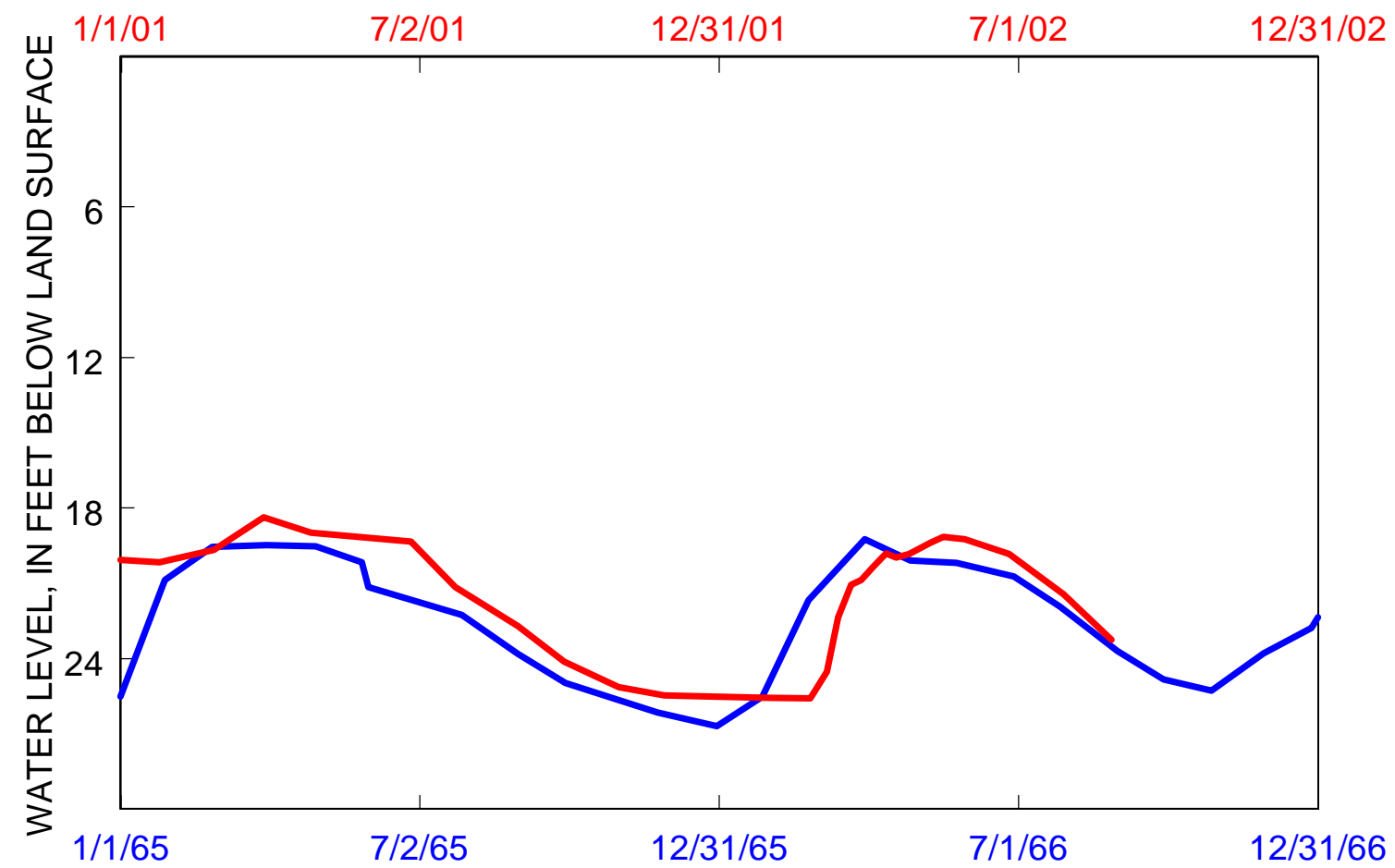
Water levels in MS-19 in 1965-66 and 2001-02



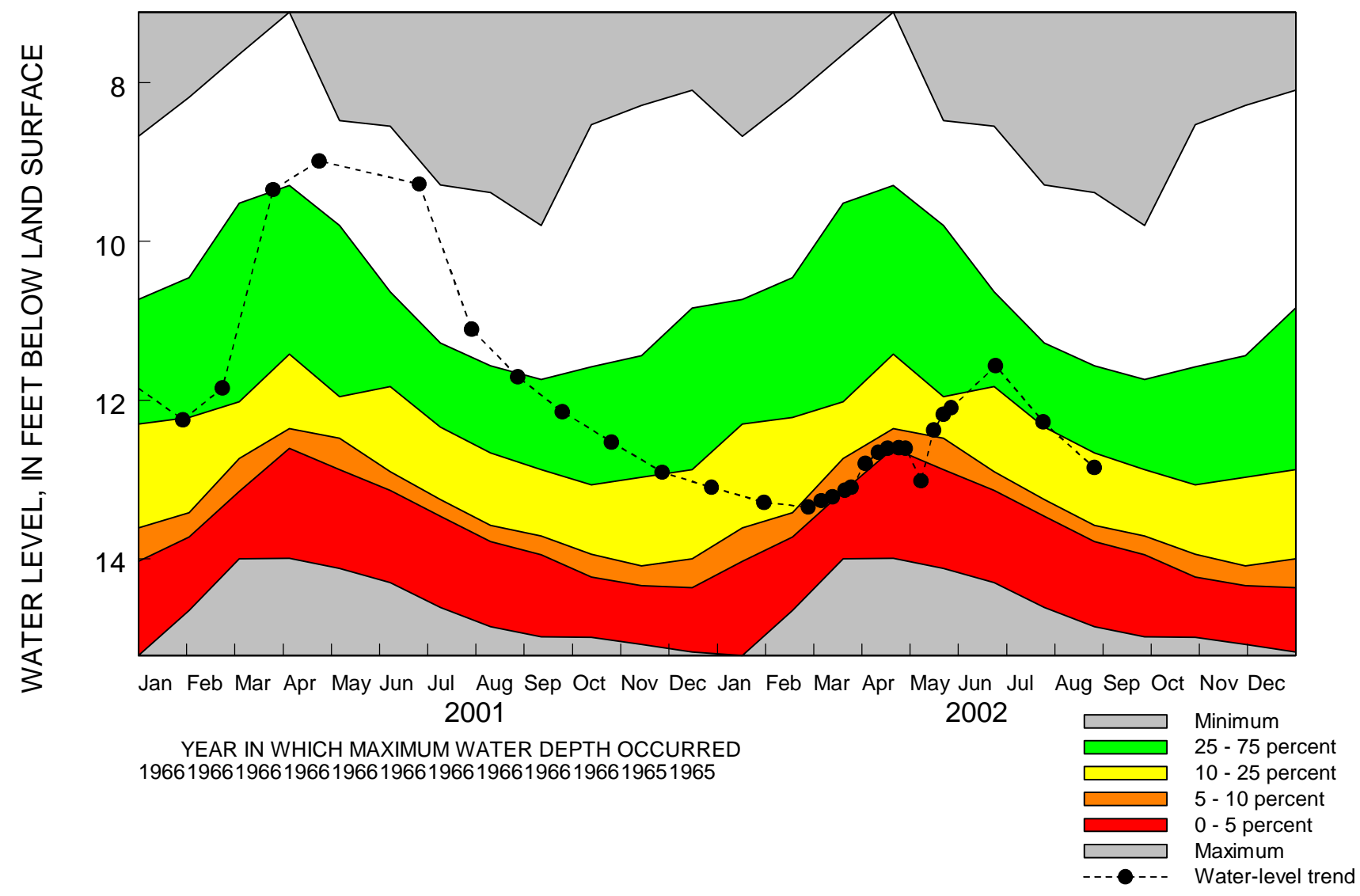
Water levels in USGS MT-261, Middletown, CT



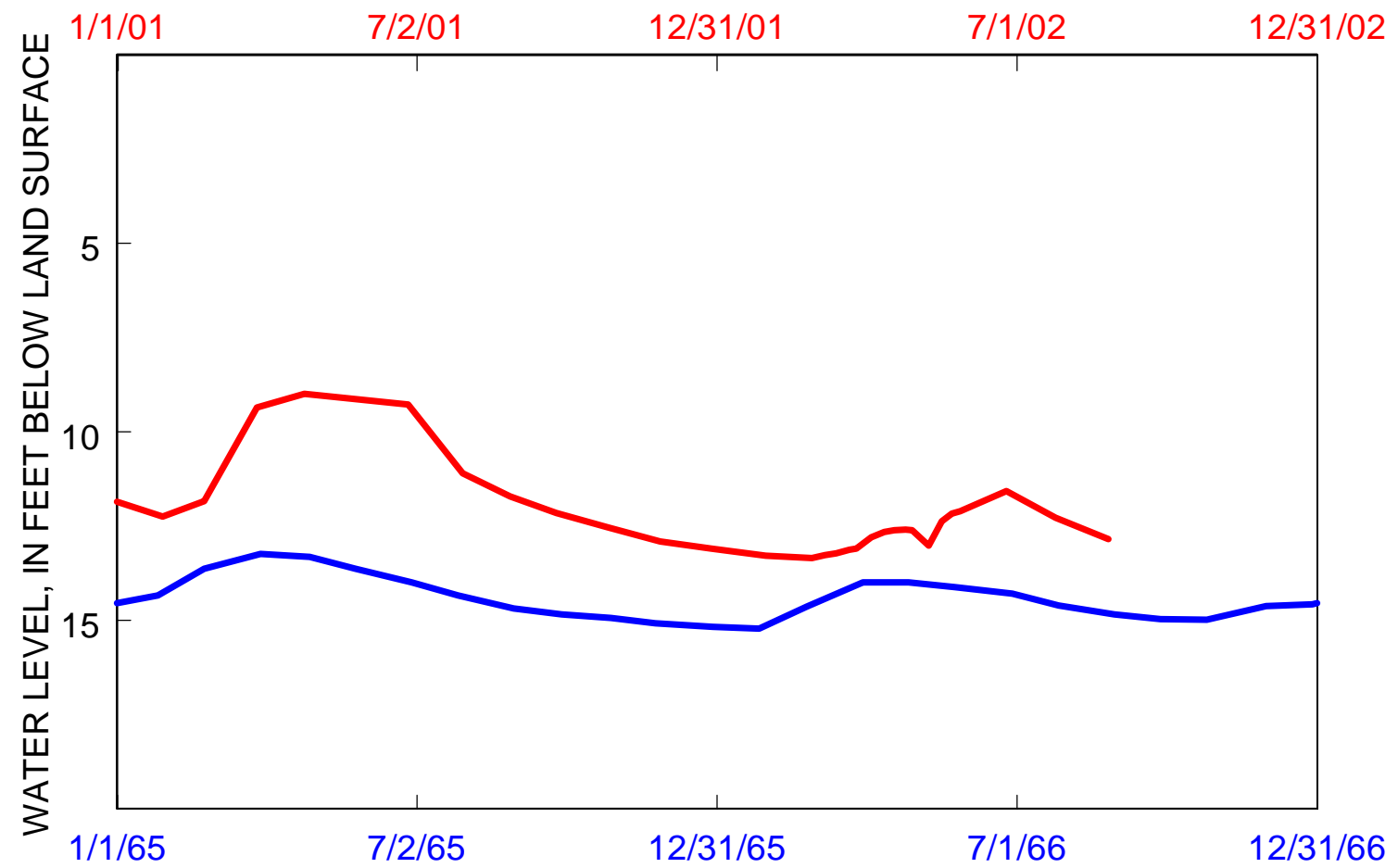
Water levels in well MT-261 in 1965-66 and 2001-02



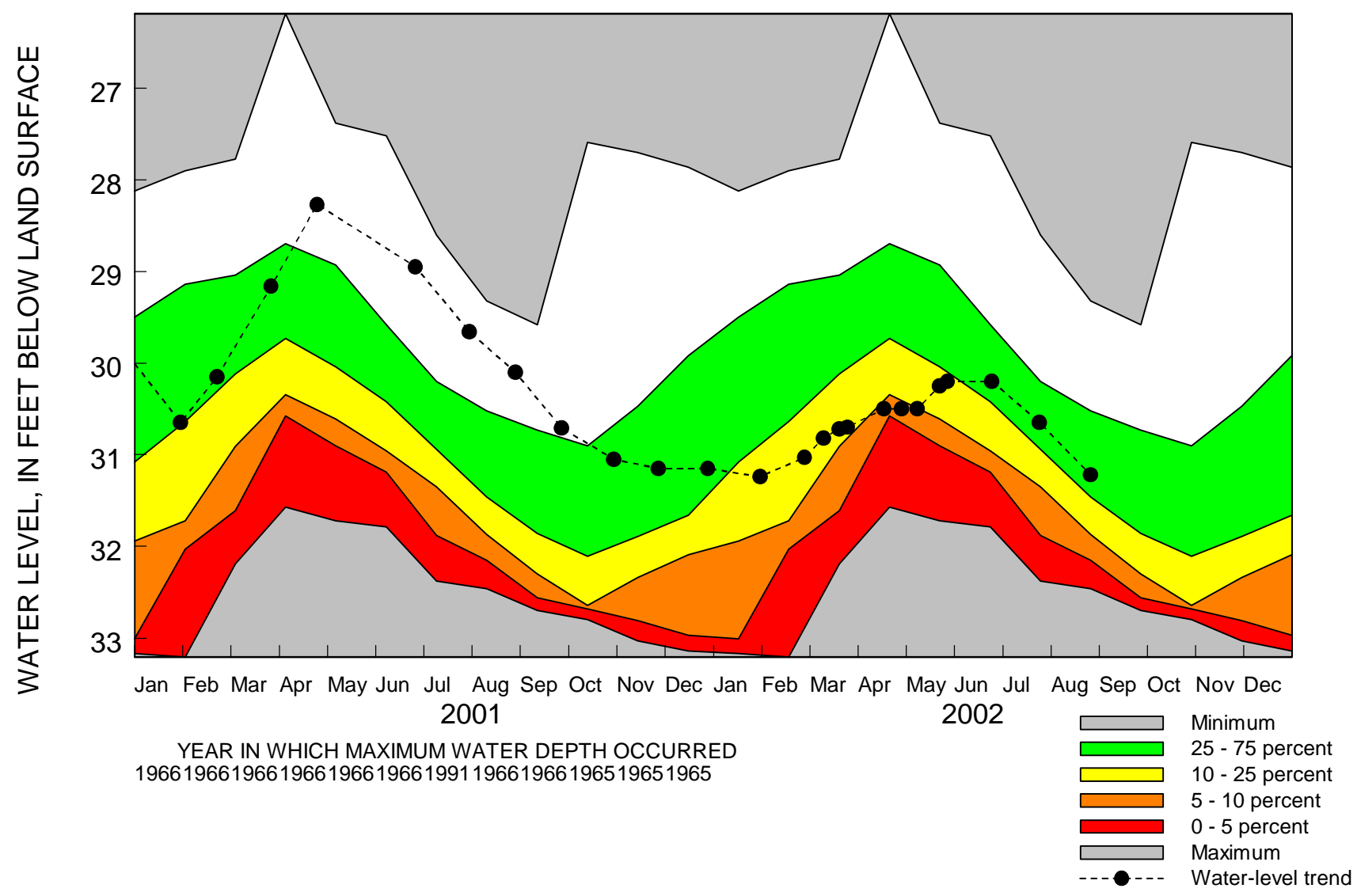
Water levels in USGS SW-64, South Windsor, CT



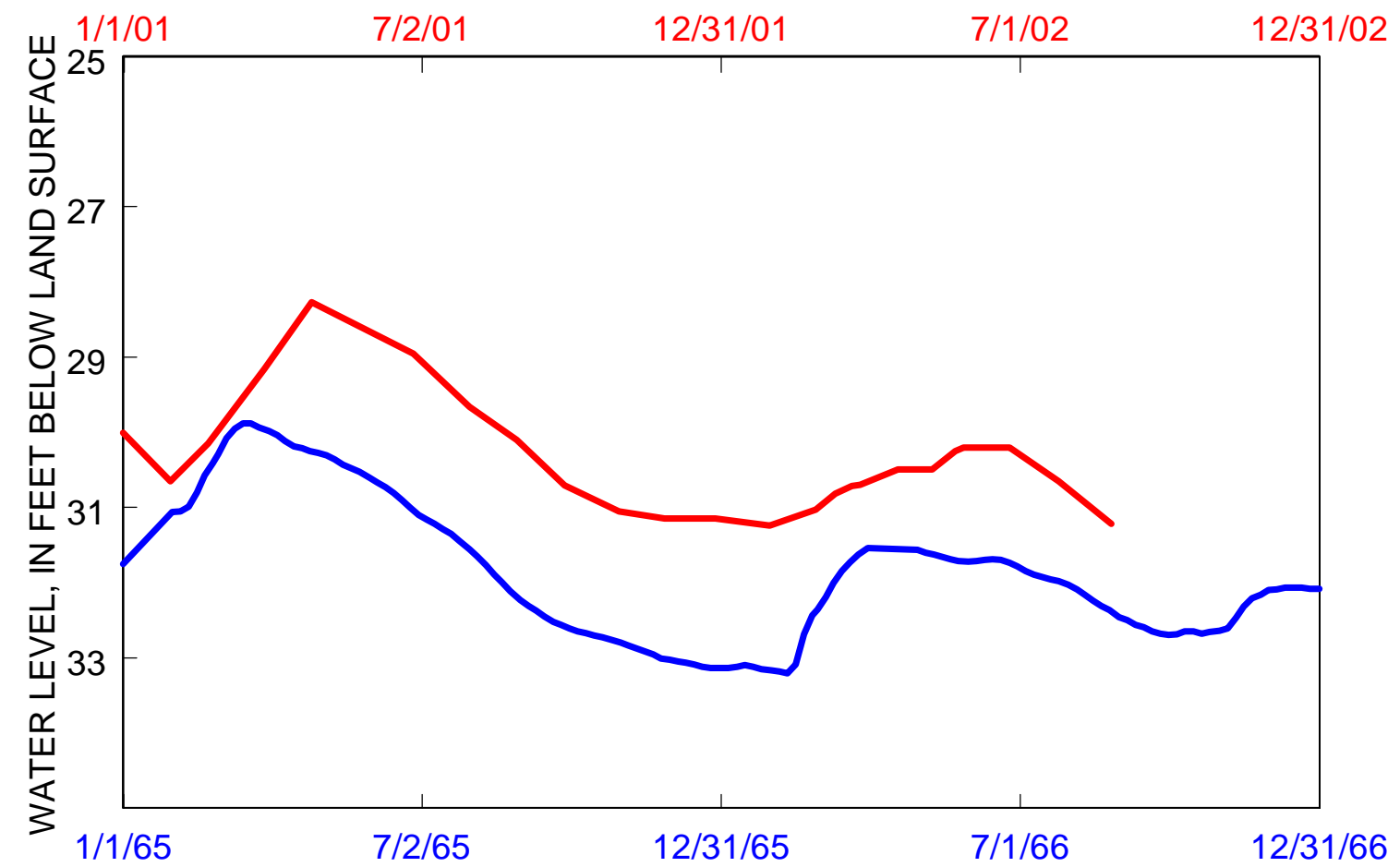
Water levels in well SW-64 in 1965-66 and 2001-02



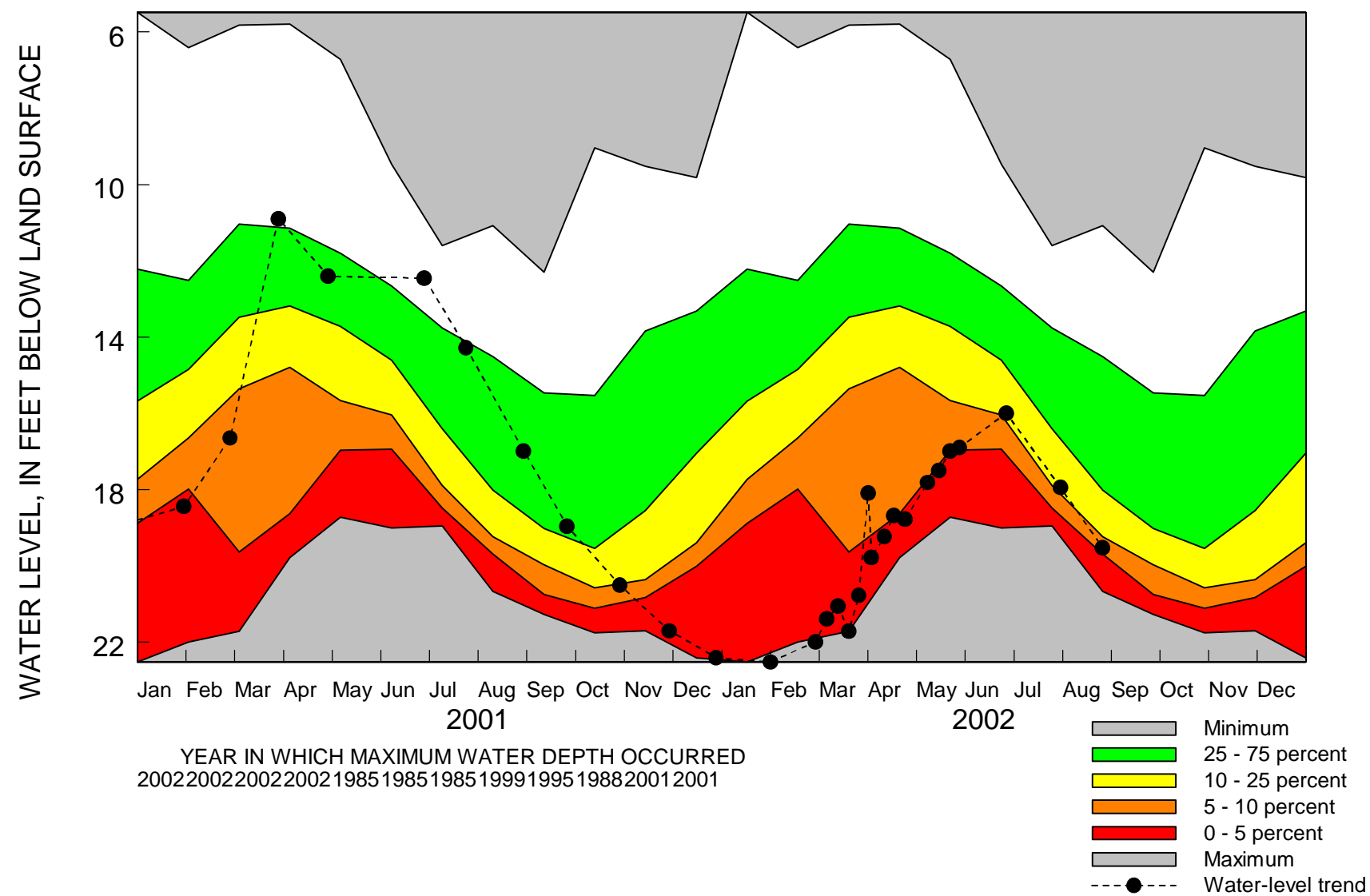
Water levels in USGS well PL-1, Plainfield, CT



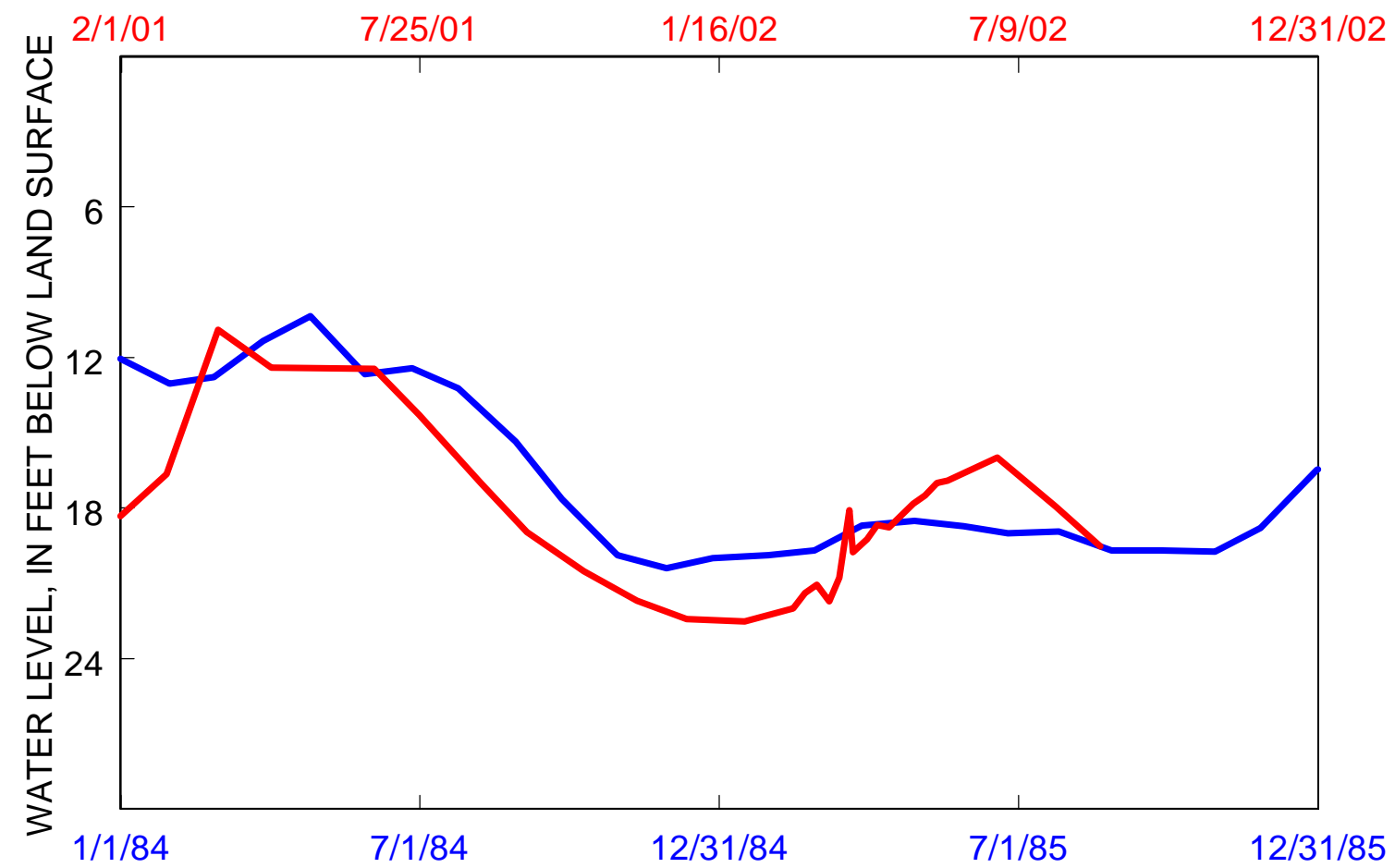
Water levels in well PL-1 in 1965-66 and 2001-02



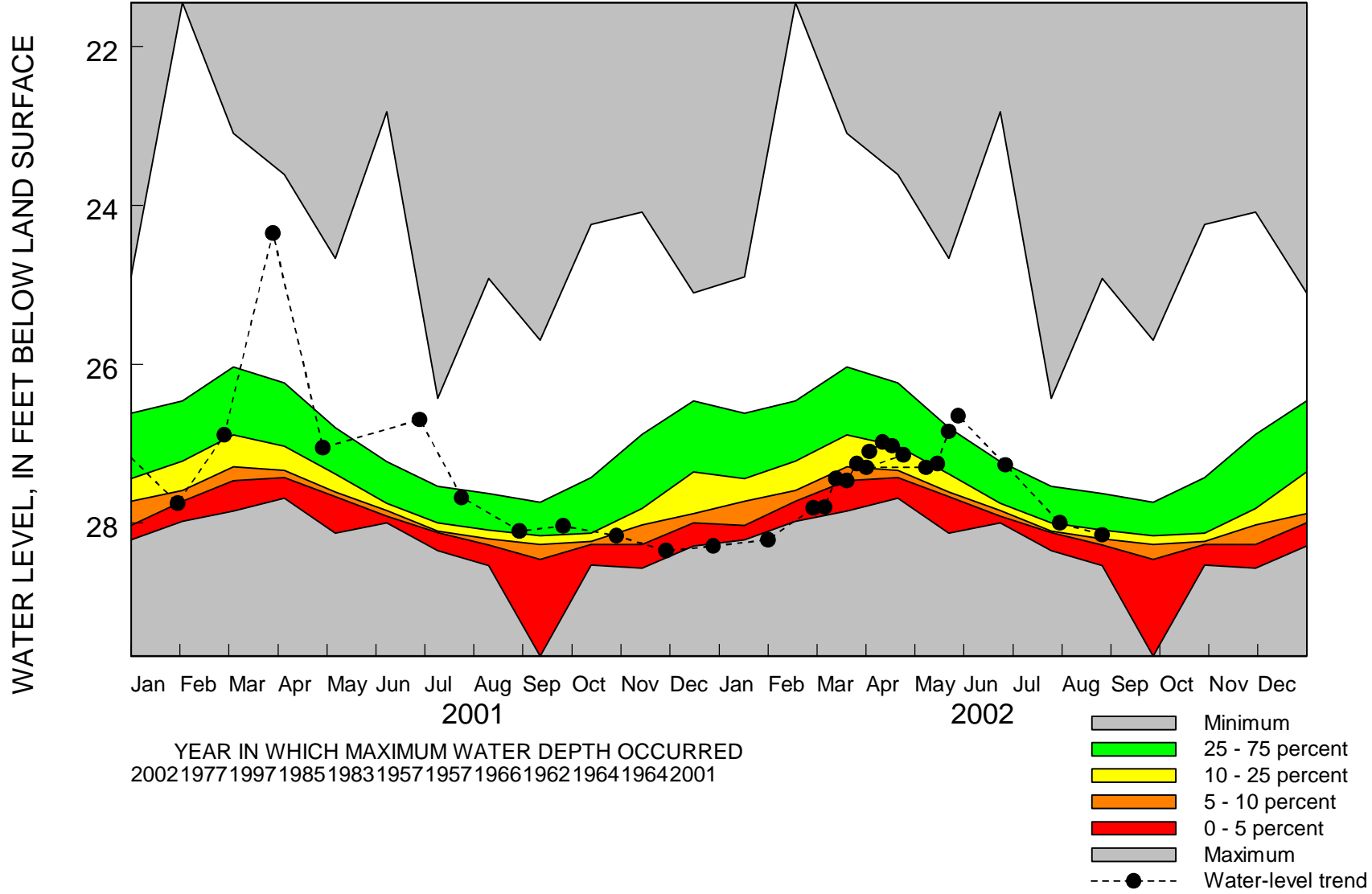
Water levels in USGS well WB-198, Waterbury, CT



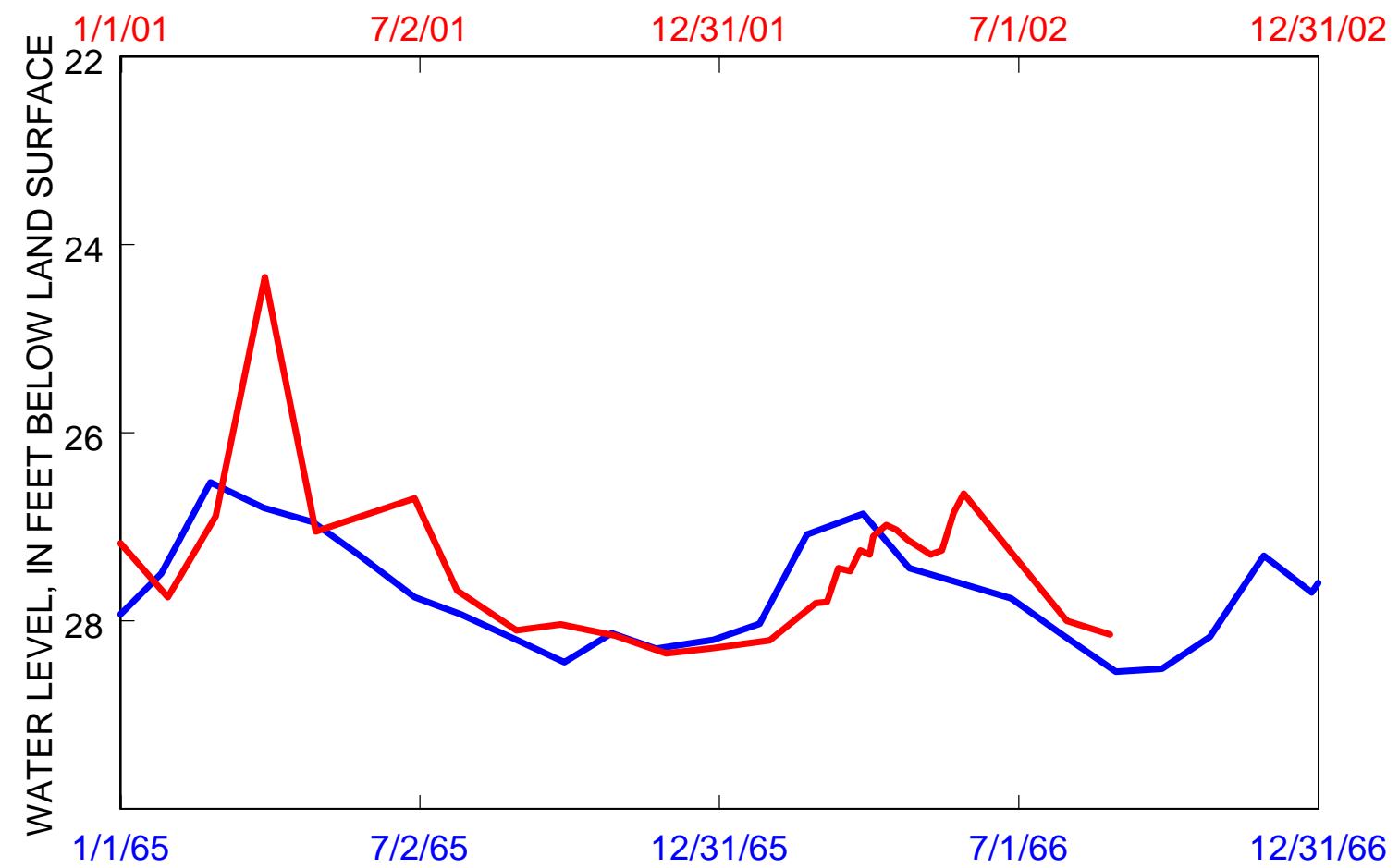
Water levels in well WB-198 in 1984-85 and 2001-02



Water levels in USGS well WB-93, Waterbury, CT



Water levels in well WB-93 in 1965-66 and 2001-02



Summary of ground-water level observations

- Ground-water levels in eight long-term observation wells are below normal (7 wells) or normal (1 well)
- Even in the drought in the 1960s, water levels rose in the fall and winter
- The pattern of ground-water levels this summer is similar in most wells to the worst drought years on record, which were in 1965-66
- The small amount of precipitation late this summer has caused ground-water levels to drop below normal in most places



Conclusions

- In all eight long-term observation wells, ground-water levels are going down
- Ground-water levels normally go down in summer, and many wells have already reached the highest levels for the year
- Further precipitation this summer will not affect ground-water levels as much as precipitation did in the spring

